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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/632,196	SCHNEIDER, GERHARD A.				
Office Action Summary	Examiner	Art Unit				
The MAN INO DATE of this comment of the	DUC Q DINH	2674				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 22 October 2004.						
	action is non-final.					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-18 and 21-60 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 16-18,38-42,47,48 and 55 is/are allowed. 6) ☐ Claim(s) 1-15,21-37,43-46,49-54,56-60 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/22/04 has been entered. And an Office Action is provided as following.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention
- 3. Claims 31- 37, 43-46 and 54 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. For example, claims 31 –37, recited the limitations "a second presentation element coupled to the radio frequency communication unit and configured to provide a second control signal to the host system". Although the specification does mention the radio frequency communication unit and the first presentation element, specifically as indicated by applicant, Fig. 7, pages 34-35 only discloses "The position sensors 735 are conventional position sensors used to detect the movement

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information by the control device (720). For example, the position sensors may be rollers, photosensors, touch sensors, or gyroscopes (pages 34, line 15-page 35, line 2). In addition, when the control device element is active, the position sensors 735 of the movement detection unit 720 detect the movement of a control device movement mechanism, i.e.: the rolling of a roller ball, the touching of a touch pad the rotating or a gyroscope or the reflecting of an optical mouse" (page 35, lines 10-15), there is no disclosure for the second presentation element coupled to the radio frequency communication unit and configured to provide a second control signal to the host system.

4. Claims 1-15, 21-30 and 56-60 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In reference to the above claims, the specification does not support to the limitation "a user-operable power switch having first power control state to configured to supply power to the electronic control device, a second power control state configured to supply power to the coherent light source, and a third power control state configured to provide power substantially simultaneously to the electronic control device and the coherent light source for substantially simultaneously operating the electronic device.....". The specification as originally filed only discloses, specifically, in Fig. 3a a selection switch 335 to toggle between operation of the laser pointer, the pointing device or a combination of a laser pointer and a pointing device (page 20, lines 5-7, page 21, lines 17-21). The examiner examines the application as best understood of the claimed languages.

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 26-28, 43-46, 49-53 and 56-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Daniels (U. P. Patent No. 6,417,840 B1) in view of Stork et al. (U. S. Patent No. 6,275,174), hereinafter Stork 174'.

In reference to claims 1 and 56-60, Daniels discloses an integrated cordless mouse in Fig. 11 comprising a signal generator (corresponding to the electronic control device) and laser generator (coherent light source) which selectively communicates with a computer and which is also capable of transmitting a beam of laser light. As shown in Fig. 1-5 there is illustrated a wireless mouse 10 capable of transmitting, for example, infrared control signals to a computer and of transmitting a focused beam of light for presentation highlighting. The mouse 10 has conventional operating buttons 14 and 16 on an upper surface 12. The mouse 10 further has a mouse ball 26 in an undersurface 18, a front surface 20, and a plurality of sides 22. The left and right operating buttons 14, 16 are separately operable, and each button 14, 16 sends a specific infrared (IR) wireless signal or signals to a computer or other like device through a port 24 located on the front surface 20 (col. 2, lines 30-42). In addition Daniels discloses that the mouse 10 provides the added functionality of enabling a user to point to the computer images with a beam of light. Specifically, an operator may operate the mouse 10 for computer control while standing at a podium, dais, or other location. By aligning the port 24 with a light receiver on the

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computer, an operator may move the mouse 10 on a surface and/or press one of the operating buttons 14, 16 in order to, for example, switch to the next displayed image. Further, the operator may depress the switch 30 and point the port 24 towards a certain aspect of the computer image being displayed, thereby highlighting that aspect with a beam of light (col. 4, line 64-col. 5, line 3). Moreover, Daniels discloses that the signals transmitted by a cordless mouse 10 to the computer are of necessity signals, which may be sent without a physical transmission line. Preferably, the mouse 10 sends infrared signals generated by the signal generator 41 in response to movements sensed by the mouse ball 26 and in response to operation of switches controlled by the operating buttons 14, 16. Alternatively, provided a suitable frequency band is used which does not disrupt operation of the computer, the signals from the signal generator 41 may be transmitted as radio frequency signals satisfying to the claimed limitation radio frequency transmitter (col. 3, line 35-45).

Accordingly, Daniels discloses everything except the limitation that the device includes a user-operable power switch having first power control state to configured to supply power to the electronic control device, a second power control state configured to supply power to the coherent light source, and a third power control state configured to provide power substantially simultaneously to the electronic control device and the coherent light source for substantially simultaneously operating the electronic divice.....".. Stork 174' discloses an input device in Fig. 2a and 2b the region of the body of rotation not cover by the holding hand has in addition to the first embodiment a filed with 3 keys (Function 5,6,7), with can operated by the free hand. In order to call up less frequently required special functions, Furthermore, a switch L is provided in

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this embodiment (col. 5, lines 60-66). This imply that additional switch L can be used at the same time with other functions of the rotating knob (see col. 4, line 45 – col. 5, line 15)

It would have been obvious for one of ordinary skill in the art at the time of the invention was made to provide the teaching of Stork 174', i.e.: using the input device and the laser pointer at the same time in the device of Daniels for providing additional enhanced cursor control for the system.

In reference to claims 26-28, Daniels discloses in FIGS. 3, 4, a switch 30 is provided on a side 22 of he cordless mouse 10. While the switch 30 is shown to be on the side 22 to the left of the front surface 20, it is to be understood that the switch may be located anywhere on the mouse 10. The switch 30 functions to selectively allow transmission of the computer control signals produced by either of the buttons 14, 16 and/or the mouse ball 26 or transmission of the beam of light from the light generating apparatus 27 through the port 24. Specifically, with the switch 30 in its normal, under pressed state, the mouse 10 functions as a conventional cordless computer mouse and the signal generator 41 is enabled to transmit signals from the mouse ball 26 and the operating buttons 14, 16 to the computer. Upon depression of the switch 30, the signal generator 41 is disabled. Instead, the laser generator 42 is enabled and a beam of light from the laser generator 42, is transmitted through the port 24. FIG. 11 shows the electrical connection of the switch 30 to enable (EN) inputs of the signal generator 41 and the laser generator 42. As shown, the switch 30 selectively applies an enable signal to one or the other generators 41, 42 in accordance with whether it is depressed or not. Alternatively, as illustrated in FIGS. 10A and 10B, a switch 30' may be a toggle switch. Namely, the switch 30' may be

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pushed and then mechanically held into an A position, which enables the signal generator 41 or into a B position which enables the laser generator 42 (col. 3, line 67 - col. 4 line 19).

In reference to claim 43, Daniels discloses the laser generator in Fig. 12 as the second presentation control element.

In reference to claims 44-46, Daniels discloses switch 30 to select between the mouse mode (for slide show control) and laser pointer mode (optical pointing device mode) [col.4, line 63-col.5, line 3].

Claims 49-53 are method claims associated with the above apparatus of claims 1, 20, 26-27, and are rejected as the same set forth as applied to the above claims.

1. Claims 2-5, 7 and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels and Stork 174'.

In reference to claims 2-5, 7, 9-10, Daniels Stork 174' discloses everything except for the location and/or arrangement of the control mechanism a light beam on the device housing.

Absent a showing of critically and/or unexpected result, it would been obvious to one of ordinary skill in the art to relocate the arrangement of the control mechanism an light beam on the device housing as desired as was judicially recognized with IN RE JAPIKEE USPQ 70 (CCPA 1950), which recognizes that the relocation of well known element is normally not desired toward patentable subject matter.

2. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels and Stork 174' and further in view of Liu (U. P. Patent No. 6,133,907).

In reference to claims 6 and 47, Daniels and Stork 174' discloses everything except a lens of the coherent light source. Liu discloses a pointing device employing laser beam having a lens 16 in Fig. 2 as claimed.

It would have been obvious for one of ordinary skill in the art to provide the lens taught by Liu in the device of Daniels and Stork 174' for protecting the laser light source.

3. Claims 8, 11-15, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels and Stork 174' in view of Stork et al (U. P. Patent No. 6,181,329 B1), hereinafter Stork 329'.

In reference to claims 8, 11-13, Daniel and Stork 174' fail to discloses a writing mechanism and gyroscope system for the electrical control device. Stork 329' discloses an apparatus for tracking the location of a writing instrument comprises and three gyroscopes 126-128.

It would have been obvious for one of ordinary skill in the art for providing the Stork's 329' writing instrument to the device discloses by Daniels and Stork 174' for providing a convenient writing means for users using the input device.

It would have been also obvious for one of ordinary skill in the art at to provide the gyroscope system taught by Stork 329' in the device of Daniel and Stork 174' for sensing the position information of the device for the system.

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In reference to claims 14-15, Daniels and Stork 174' discloses everything except for the location and/or arrangement of the control mechanism, the writing instrument and light beam source on the device housing.

Absent a showing of critically and/or unexpected result, it would been obvious to one of ordinary skill in the art to relocate the arrangement of the control mechanism an light beam on the device housing as desired as was judicially recognized with IN RE JAPIKEE USPQ 70 (CCPA 1950), which recognizes that the relocation of well known element is normally not desired toward patentable subject matter.

In reference to claim 21, Daniel and Stork 174' fails to disclose radio-frequency receiver for the system. Stork 392' discloses a transceiver 140 for transmitting data from tracking sensor and other data to the remote computing device 175. Transceiver 140 may also receive data from remote computing device 175 (See Fig. 1).

It would have been obvious for one of ordinary skill in the art at the time of the invention was made to substitute the transceiver taught by Stork 329' with the transmitter disclosed by Daniels for providing two way communication for the system, i.e.:, transmitting data from the input device to the remote computer and for receiving data from remote computing system (col. 3, lines 30-37).

4. Claims 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels and Stork 174' in view of Hu (U. P. Patent No. 5,952,997).

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In reference to claim 22, Daniels and Stork 174' discloses everything except the electronic control comprises an optical pointing device. Hu discloses an optical mouse as claimed.

It would have been obvious for one of ordinary skill in the art to substitute the optical mouse taught by Hu for the conventional mouse of Daniels and Stork 174' to provide other optional input device as user's desire.

In reference to claims 23-25, Daniels discloses switch 30 to select between the mouse mode (for slide show control) and laser pointer mode (optical pointing device mode) [col.4, line 63-col.5, line 3].

5. Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels, Stork 174' and further in view of Buchner et al. (U. S. Patent No. 5,532,753), hereinafter Buchner.

In reference to claims 29-30, Daniels and Stork 174' fail to disclose the power management unit to turn off at least one electronic device and the coherent light source in response to a predetermined time. Buchner disclose an input device 3 in Fig. 1 having operation member 3a, If the operation member 3a is released, the control picture disappears and the remote controller 3 is automatically switched from the operation mode to the power off or power save mode in a predetermined time after the operation member 3a is released (col. 5, lines 63-67).

It would have been obvious for one of ordinary skill in the art at the time of the invention was made to provide the teaching of Buchner in the device of Daniels and Stork 174', i.e.: turn

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of the power of the input device after the operation member is released in a predetermined of time, for saving power of the input device.

Allowable Subject Matter

- 6. Claims 16-18, 38-42, 47-48 and 55 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: none of the cited arts teaches or suggests:

"the first and second battery contacts are configured to contract if the presentation module and the second presentation module are combined, and the first power source and the second power source are shared by the first presentation module and the second presentation module".

"a switching means for selecting operation of the coherent light source, the application control means, or the simultaneous operation of the coherent light source means and the application control means" (claim 38).

Response to Arguments

8. Applicant's arguments, see pages 12-18 of the Amendment, filed 10/22/04 have been fully considered but they are not persuasive. With respect to rejected under 35 U.S.C. 112, first paragraph. With respect to the 103 Rejections, see rejected under 35 U.S.C. 103(a) and the indicated allowable subject matter above.

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **DUC Q DINH** whose telephone number is **(703) 306-5412** The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9306 (for Technology Center 2600 only)

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, Va Sixth Floor (Receptionist)

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 305-4700.

DUC Q DINH Examiner Art Unit 2674

DQD

December 10, 2004